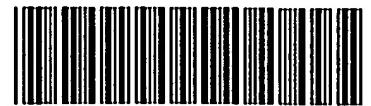


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/820,339B
Source: FWJ6
Date Processed by STIC: 12/13/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:37

Input Set : A:\sequence listing.txt
 Output Set: N:\CRF4\12132005\I820339B.raw

3 <110> APPLICANT: FUCHS, Sara
 4 BARCHAN, Dora
 5 SOUROJON, Miriam C.
 7 <120> TITLE OF INVENTION: RECOMBINANT FRAGMENTS OF THE HUMAN ACETYLCHOLINE RECEPTOR

AND

8 THEIR USE FOR TREATMENT OF MYASTHENIA GRAVIS

10 <130> FILE REFERENCE: FUCHS=2A

C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/820,339B

C--> 12 <141> CURRENT FILING DATE: 2001-03-29

12 <150> PRIOR APPLICATION NUMBER: 09/423,398

13 <151> PRIOR FILING DATE: 1999-11-08

15 <150> PRIOR APPLICATION NUMBER: PCT/IL98/00211

16 <151> PRIOR FILING DATE: 1998-05-06

18 <160> NUMBER OF SEQ ID NOS: 32

20 <170> SOFTWARE: PatentIn version 3.3

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 630

24 <212> TYPE: DNA

25 <213> ORGANISM: Homo sapiens

27 <400> SEQUENCE: 1

28 tccgaacatg agaccgtct ggtggcaaag ctattaaag actacagcag cgtggcg	60
30 ccagtggaaag accaccgcca ggtcgtagag gtcaccgtgg gcctgcact gatacagctc	120
32 atcaatgtgg atgaagtaaa tcagatcgta acaaccaatg tgcgtctgaa acagaatgg	180
34 gtggattaca acctaaaatg gaatccagat gactatggcg gtgtgaaaaa aattcacatt	240
36 ccttcagaaa agatctggcg cccagacctt gttctctata acgatgcaga tggacttt	300
38 gctattgtca agttcaccaa agtgctcctg cagtagactg gccacatcac gtggacacct	360
40 ccagccatct ttaaaagcta ctgtgagatc atcgtcaccc actttccctt tgatgaacag	420
42 aactgcagca tgaagctggg cacctggacc tacgacggct ctgtcggtgc catcaacccg	480
44 gaaagcggacc agccagacct gagcaactc atggagagcg gggagtgggt gatcaaggag	540
46 tccccgggct ggaagcactc cgtgacctat tcctgctgcc ccgacacccc ctacctggac	600
48 atcacctacc acttcgtcat gcagcgctg	630

51 <210> SEQ ID NO: 2

52 <211> LENGTH: 210

53 <212> TYPE: PRT

54 <213> ORGANISM: Homo sapiens

56 <400> SEQUENCE: 2

58 Ser Glu His Glu Thr Arg Leu Val Ala Lys Leu Phe Lys Asp Tyr Ser

59 1 5 10 15

62 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr

63 20 25 30

66 Val Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln

67 35 40 45

70 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gln Trp Val Asp Tyr Asn

71 50 55 60

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:37

Input Set : A:\sequence listing.txt
 Output Set: N:\CRF4\12132005\I820339B.raw

74 Leu Lys Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Lys Ile His Ile
 75 65 70 75 80
 78 Pro Ser Glu Lys Ile Trp Arg Pro Asp Leu Val Leu Tyr Asn Asn Ala
 79 85 90 95
 82 Asp Gly Asp Phe Ala Ile Val Lys Phe Thr Lys Val Leu Leu Gln Tyr
 83 100 105 110
 86 Thr Gly His Ile Thr Trp Thr Pro Pro Ala Ile Phe Lys Ser Tyr Cys
 87 115 120 125
 90 Glu Ile Ile Val Thr His Phe Pro Phe Asp Glu Gln Asn Cys Ser Met
 91 130 135 140
 94 Lys Leu Gly Thr Trp Thr Tyr Asp Gly Ser Val Val Ala Ile Asn Pro
 95 145 150 155 160
 98 Glu Ser Asp Gln Pro Asp Leu Ser Asn Phe Met Glu Ser Gly Glu Trp
 99 165 170 175
 102 Val Ile Lys Glu Ser Arg Gly Trp Lys His Ser Val Thr Tyr Ser Cys
 103 180 185 190
 106 Cys Pro Asp Thr Pro Tyr Leu Asp Ile Thr Tyr His Phe Val Met Gln
 107 195 200 205
 110 Arg Leu
 111 210
 114 <210> SEQ ID NO: 3
 115 <211> LENGTH: 75
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Homo sapiens
 119 <400> SEQUENCE: 3
 120 ggtgacatgg tagatctgcc acggccccagc tgcgtgactt tgggagttcc ttgtttct 60
 122 catctgcagg attag 75
 125 <210> SEQ ID NO: 4
 126 <211> LENGTH: 25
 127 <212> TYPE: PRT
 128 <213> ORGANISM: Homo sapiens
 130 <400> SEQUENCE: 4
 132 Gly Asp Met Val Asp Leu Pro Arg Pro Ser Cys Val Thr Leu Gly Val
 133 1 5 10 15
 136 Pro Leu Phe Ser His Leu Gln Asp Glu
 137 20 25
 140 <210> SEQ ID NO: 5
 141 <211> LENGTH: 705
 142 <212> TYPE: DNA
 143 <213> ORGANISM: Homo sapiens
 145 <400> SEQUENCE: 5 ¶
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 148 ccagtggaaag accaccgcca gtcgtggag gtcaccgtgg gcctgcagct gatacagctc 120
 150 atcaatgtgg atgaagtaaa tcagatcgtg acaaccaatg tgcgtctgaa acagggtgac 180
 152 atggtagatt tgccacgccc cagctgcgtg actttggag ttcctttgtt ttctcatctg 240
 154 caggatgagc aatgggtgga ttacaaccta aaatggaatc cagatgacta tggcggtgt 300
 156 aaaaaaaattc acattcccttc agaaaaagatc tggcgcccag accttgttct ctataacgat 360
 158 gcagatggtg actttgttat tgtcaagttc accaaagtgc tcctgcagta cactggccac 420
 160 atcacgtgga cacctccagc catcttaaa agtactgtg agatcatcgt caccacttt 480

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:37

Input Set : A:\sequence listing.txt
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162	ccctttgatg	aacagaactg	cagcatgaag	ctgggcacct	ggacctacga	cggctctgtc	540									
164	gtggccatca	accggaaag	cgaccaggca	gacctgagca	acttcatgga	gagcggggag	600									
166	tgggtatca	aggagtccc	gggcttggaa	caactccgtga	cctattctg	ctggcccgac	660									
168	accccctacc	tggacatcac	ctaccacttc	gtcatgcagc	gcctg		705									
171	<210>	SEQ ID NO:	6													
172	<211>	LENGTH:	235													
173	<212>	TYPE:	PRT													
174	<213>	ORGANISM:	Homo sapiens													
176	<400>	SEQUENCE:	6													
178	Ser	Glu	His	Glu	Thr	Arg	Leu	Val	Ala	Lys	Leu	Phe	Asp	Tyr	Ser	
179	1			5			10								15	
182	Ser	Val	Val	Arg	Pro	Val	Glu	Asp	His	Arg	Gln	Val	Val	Glu	Val	Thr
183				20			25								30	
186	Ala	Gly	Leu	Gln	Leu	Ile	Gln	Leu	Ile	Asn	Val	Asp	Glu	Val	Asn	Gln
187				35			40								45	
190	Ile	Val	Thr	Thr	Asn	Val	Arg	Leu	Lys	Gln	Gly	Asp	Met	Val	Asp	Leu
191				50			55								60	
194	Pro	Arg	Pro	Ser	Cys	Val	Thr	Leu	Gly	Val	Pro	Leu	Phe	Ser	His	Leu
195	65				70			75							80	
198	Gln	Asp	Glu	Gln	Trp	Val	Asp	Tyr	Asn	Leu	Lys	Trp	Asn	Pro	Asp	Asp
199					85			90							95	
202	Tyr	Gly	Gly	Val	Lys	Lys	Ile	His	Ile	Pro	Ser	Glu	Lys	Ile	Trp	Arg
203				100			105								110	
206	Pro	Asp	Leu	Val	Leu	Tyr	Asn	Asn	Ala	Asp	Gly	Asp	Phe	Ala	Ile	Val
207				115			120								125	
210	Lys	Phe	Thr	Lys	Val	Leu	Leu	Gln	Tyr	Thr	Gly	His	Ile	Thr	Trp	Thr
211				130			135								140	
214	Pro	Pro	Ala	Ile	Phe	Lys	Ser	Tyr	Cys	Glu	Ile	Ile	Val	Thr	His	Phe
215	145				150				155							160
218	Pro	Phe	Asp	Glu	Gln	Asn	Cys	Ser	Met	Lys	Leu	Gly	Thr	Trp	Thr	Tyr
219					165			170							175	
222	Asp	Gly	Ser	Val	Val	Ala	Ile	Asn	Pro	Glu	Ser	Asp	Gln	Pro	Asp	Leu
223				180			185								190	
226	Ser	Asn	Phe	Met	Glu	Ser	Gly	Glu	Trp	Val	Ile	Lys	Glu	Ser	Arg	Gly
227				195			200								205	
230	Trp	Lys	His	Ser	Val	Thr	Tyr	Ser	Cys	Cys	Pro	Asp	Thr	Pro	Tyr	Leu
231		210			215				220							
234	Asp	Ile	Thr	Tyr	His	Phe	Val	Met	Gln	Arg	Leu					
235	225			230				235								
238	<210>	SEQ ID NO:	7													
239	<211>	LENGTH:	690													
240	<212>	TYPE:	DNA													
241	<213>	ORGANISM:	Homo sapiens													
243	<400>	SEQUENCE:	7													
244	tccgaacatg	agaccgtct	ggtggcaaag	ctatcaaag	actacagcag	cgtggtgccg	60									
246	ccagtggaaag	accaccgcca	ggtcggtggag	gtcaccgtgg	gcctgcagct	gatacagctc	120									
248	atcaatgtgg	atgaagtaaa	tcaagatcg	acaaccaatg	tgcgtctgaa	acagggtgac	180									
250	atggtagatc	tgccacgccc	cagctgcgtg	acttgggag	ttcccttgg	ttctcatctg	240									
252	caggatgagc	aatgggtgga	ttacaaccta	aaatggaatc	cagatgacta	tggcggtgt	300									

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:37

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 Output Set: N:\CRF4\12132005\I820339B.raw

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254 aaaaaaaattc acattcccttc agaaaagatc tggcgcccag accttgttct ctataacgt      360
256 gcagatggtg actttgctat tgtcaagtgc accaaagtgc tcctgcagta cactggccac      420
258 atcacgtgga caccccccagc catctttaaa agctactgtg agatcatcgta caccacttt      480
260 cccttgatg aacagaactg cagcatgaag ctggcacct ggacctacga cggctctgtc      540
262 gtggccatca acccgaaag cgaccagcca gacctgagca acttcatgga gagcggggag      600
264 tgggtgatca aggagccccg gggctggaag cactccgtga cctattcctg ctgccccgac      660
266 accccctacc tggacatcac ctaccacttc                                         690

269 <210> SEQ ID NO: 8
270 <211> LENGTH: 230
271 <212> TYPE: PRT
272 <213> ORGANISM: Homo sapiens
274 <400> SEQUENCE: 8
276 Ser Glu His Glu Thr Arg Leu Val Ala Lys Leu Phe Lys Asp Tyr Ser
277 1           5           10          15
280 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr
281       20          25          30
284 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln
285       35          40          45
288 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gly Asp Met Val Asp Leu
289       50          55          60
292 Pro Arg Pro Ser Cys Val Thr Leu Gly Val Pro Leu Phe Ser His Leu
293 65           70          75          80
296 Gln Asp Glu Gln Trp Val Asp Tyr Asn Leu Lys Trp Asn Pro Asp Asp
297       85          90          95
300 Tyr Gly Gly Val Lys Lys Ile His Ile Pro Ser Glu Lys Ile Trp Arg
301       100         105         110
304 Pro Asp Leu Val Leu Tyr Asn Asn Ala Asp Gly Asp Phe Ala Ile Val
305       115         120         125
308 Lys Phe Thr Lys Val Leu Leu Gln Tyr Thr Gly His Ile Thr Trp Thr
309       130         135         140
312 Pro Pro Ala Ile Phe Lys Ser Tyr Cys Glu Ile Ile Val Thr His Phe
313 145           150         155         160
316 Pro Phe Asp Glu Gln Asn Cys Ser Met Lys Leu Gly Thr Trp Thr Tyr
317       165         170         175
320 Asp Gly Ser Val Val Ala Ile Asn Pro Glu Ser Asp Gln Pro Asp Leu
321       180         185         190
324 Ser Asn Phe Met Glu Ser Gly Glu Trp Val Ile Lys Glu Ser Arg Gly
325       195         200         205
328 Trp Lys His Ser Val Thr Tyr Ser Cys Cys Pro Asp Thr Pro Tyr Leu
329       210         215         220
332 Asp Ile Thr Tyr His Phe
333 225           230
336 <210> SEQ ID NO: 9
337 <211> LENGTH: 20
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: synthetic
344 <400> SEQUENCE: 9

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:37

Input Set : A:\sequence listing.txt
 Output Set: N:\CRF4\12132005\I820339B.raw

345 ccggatccga acatgagacc	20
348 <210> SEQ ID NO: 10	
349 <211> LENGTH: 23	
350 <212> TYPE: DNA	
351 <213> ORGANISM: Artificial	
353 <220> FEATURE:	
354 <223> OTHER INFORMATION: synthetic	
356 <400> SEQUENCE: 10	
357 cggattcca ggcgtgcat gac	23
360 <210> SEQ ID NO: 11	
361 <211> LENGTH: 26	
362 <212> TYPE: DNA	
363 <213> ORGANISM: Artificial	
365 <220> FEATURE:	
366 <223> OTHER INFORMATION: synthetic	
368 <400> SEQUENCE: 11	
369 cggattctg gaggtgtcca cgttat	26
372 <210> SEQ ID NO: 12	
373 <211> LENGTH: 23	
374 <212> TYPE: DNA	
375 <213> ORGANISM: Artificial	
377 <220> FEATURE:	
378 <223> OTHER INFORMATION: synthetic	
380 <400> SEQUENCE: 12	
381 ccggatccgc catcttaaa agc	23
384 <210> SEQ ID NO: 13	
385 <211> LENGTH: 25	
386 <212> TYPE: DNA	
387 <213> ORGANISM: Artificial	
389 <220> FEATURE:	
390 <223> OTHER INFORMATION: synthetic	
392 <400> SEQUENCE: 13	
393 gcccatgggc tccgaacatg agacc	25
396 <210> SEQ ID NO: 14	
397 <211> LENGTH: 29	
398 <212> TYPE: DNA	
399 <213> ORGANISM: Artificial	
401 <220> FEATURE:	
402 <223> OTHER INFORMATION: synthetic	
404 <400> SEQUENCE: 14	
405 ccggatcctc aaaagtgrta ggtgatrtc	29
408 <210> SEQ ID NO: 15	
409 <211> LENGTH: 24	
410 <212> TYPE: DNA	
411 <213> ORGANISM: Artificial	
413 <220> FEATURE:	
414 <223> OTHER INFORMATION: synthetic	
416 <400> SEQUENCE: 15	
417 cgctatgggg ctgcttggc acag	24

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/13/2005
PATENT APPLICATION: US/09/820,339B TIME: 14:01:38

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\12132005\I820339B.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/820,339B

DATE: 12/13/2005

TIME: 14:01:38

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\12132005\I820339B.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date